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Iowa Geological Survey, Vol. XX. Annual Report, 1909, with Accompanying Papers. By SAMUEL CALVIN, State Geologist, and Others. Pp. 542; Plates 10, Figs. 42.

The report contains the following papers: "Geology of Butler County," by Melvin F. Arey, pp. 1-60; "Geology of Grundy County," by Melvin F. Arey, pp. 60-96; "Geology of Hamilton and Wright Counties," by Thomas H. MacBride, pp. 97-150; "Geology of Iowa County," by S. W. Stookey, pp. 151-198; "Geology of Wayne County," by Melvin F. Arey, pp. 199-236; "Geology of Poweshiek County," by S. W. Stookey, pp. 236-70; "Geology of Harrison and Monona Counties," by B. Shimek, pp. 271-486; "Geology of Davis County," by Melvin F. Arey, pp. 487-524.

Shimek's report on the geology of Harrison and Monona counties contains a detailed description of the mammalian fauna recently discovered in the Aftonian interglacial deposits. These are especially important, since in only one other instance in North America has it been possible to determine definitely the age of a Pleistocene mammalian fauna. Preliminary reports and descriptions of this fauna have been published by Shimek and by Calvin in *Science* and in the *Bulletins of the Geological Society of America*.

E. R. L.

Practical Mineralogy Simplified. For Mining Students, Miners, and Prospectors. By JESSE PERRY ROWE. New York: John Wiley & Sons, 1911. Pp. 162.

This textbook is arranged to give a few special or characteristic properties or tests for the common minerals, that will enable persons unskilled in chemistry or mineralogy to identify them by simple methods. It is readable and well arranged. It will doubtless serve a useful purpose.

W. H. E.